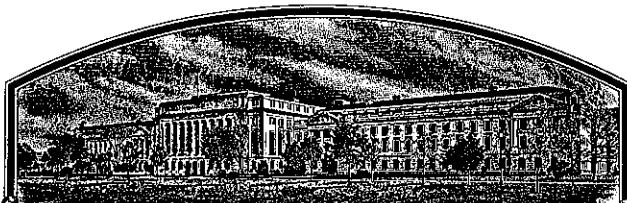


No.

9500096



# THE UNITED STATES OF AMERICA

TO ALL TO WHOM THESE PRESENTS SHALL COME:

Dr. Peter Franck

Whereas, THERE HAS BEEN PRESENTED TO THE

Secretary of Agriculture

AN APPLICATION REQUESTING A CERTIFICATE OF PROTECTION FOR AN ALLEGED NOVEL VARIETY OF SEXUALLY REPRODUCED PLANT, THE NAME AND DESCRIPTION OF WHICH ARE CONTAINED IN THE APPLICATION AND EXHIBITS, A COPY OF WHICH IS HERETO ANNEXED AND MADE A PART HEREOF, AND THE VARIOUS REQUIREMENTS OF LAW IN SUCH CASES MADE AND PROVIDED HAVE BEEN COMPLIED WITH, AND THE TITLE THERETO IS, FROM THE RECORDS OF THE PLANT VARIETY PROTECTION OFFICE, IN THE APPLICANT(S) INDICATED IN THE SAID COPY, AND WHEREAS, UPON DUE EXAMINATION MADE, THE SAID APPLICANT(S) IS (ARE) ADJUDGED TO BE ENTITLED TO A CERTIFICATE OF PLANT VARIETY PROTECTION UNDER THE LAW.

NOW, THEREFORE, THIS CERTIFICATE OF PLANT VARIETY PROTECTION IS TO GRANT UNTO THE SAID APPLICANT(S) AND THE SUCCESSORS, HEIRS OR ASSIGNS OF THE SAID APPLICANT(S) FOR THE TERM OF EIGHTEEN YEARS FROM THE DATE OF THIS GRANT, SUBJECT TO THE PAYMENT OF THE REQUIRED FEES AND PERIODIC REPLENISHMENT OF VIABLE BASIC SEED OF THE VARIETY IN A PUBLIC REPOSITORY AS PROVIDED BY LAW, THE RIGHT TO EXCLUDE OTHERS FROM SELLING THE VARIETY, OR OFFERING IT FOR SALE, OR REPRODUCING IT, OR IMPORTING IT, OR EXPORTING IT, OR CONDITIONING IT FOR PROPAGATION, OR STOCKING IT FOR ANY OF THE ABOVE PURPOSES, OR USING IT IN PRODUCING A HYBRID OR DIFFERENT VARIETY THEREFROM, TO THE EXTENT PROVIDED IN THE PLANT VARIETY PROTECTION ACT. IN THE UNITED STATES SEED OF THIS VARIETY (1) SHALL BE VARIETY NAME ONLY AS A CLASS OF CERTIFIED SEED AND (2) SHALL CONFORM TO THE NUMBER OF ONS SPECIFIED BY THE OWNER OF THE RIGHTS. (84 STAT. 1542, AS AMENDED, 7 U.S.C. 2321 ET SEQ.)

WHEAT

'Franckenkorn'

In Testimony Whereof, I have hereunto set my hand and caused the seal of the Plant Variety Protection Office to be affixed at the City of Washington, D.C. this thirty-first day of October in the year of our Lord one thousand nine hundred and ninety-seven.

Attest:

Mrs. A. H. Hunt

Commissioner  
Plant Variety Protection Office  
Agricultural Marketing Service

John Schlesinger  
Secretary of Agriculture

**APPLICATION FOR PLANT VARIETY PROTECTION CERTIFICATE**  
(INSTRUCTIONS ON REVERSE)

Application is required in order to determine if a plant variety protection certificate is to be issued (7 U.S.C. 2421). Information is held confidential until certificate is issued (7 U.S.C. 2426).

1. NAME OF APPLICANT(S) (as it is to appear on the Certificate) <b>Pflanzenzucht Oberlimburg</b>	2. TEMPORARY DESIGNATION OR EXPERIMENTAL NO. <b>Dr. Franck</b>	
4. ADDRESS (street and no. or R.F.D. no., city, state, and ZIP)  Pflanzenzucht Oberlimburg Dr. Franck D 74523 Schwäbisch Hall /Germany	5. PHONE (include area code)  49-791-2101	
6. GENUS AND SPECIES NAME <b>Triticum aest. L. ssp. spelta</b>	7. FAMILY NAME (Botanical) <b>Gramineae</b>	
8. CROP KIND NAME (Common Name) <b>SPELT</b>	9. DATE OF DETERMINATION <b>1989</b>	
10. IF THE APPLICANT NAMED IS NOT A "PERSON," GIVE FORM OF ORGANIZATION (Corporation, partnership, association, etc.) <b>Corporation</b>		
11. IF INCORPORATED, GIVE STATE OF INCORPORATION <b>Germany</b>	12. DATE OF INCORPORATION <b>1908</b>	
13. NAME AND ADDRESS OF APPLICANT REPRESENTATIVE(S), IF ANY, TO SERVE IN THIS APPLICATION AND RECEIVE ALL PAPERS  <b>Purity Foods, Inc.</b> <b>2871 W. Jolly Road, OKEMOS, MI 48864 U.S.A.</b>		
PHONE (include area code):		
14. CHECK APPROPRIATE BOX FOR EACH ATTACHMENT SUBMITTED (Follow INSTRUCTIONS on reverse)		
a. <input checked="" type="checkbox"/> Exhibit A, Origin and Breeding History of the Variety b. <input checked="" type="checkbox"/> Exhibit B, Novelty Statement c. <input checked="" type="checkbox"/> Exhibit C, Objective Description of Variety d. <input checked="" type="checkbox"/> Exhibit D, Additional Description of Variety e. <input checked="" type="checkbox"/> Exhibit E, Statement of the Basis of Applicant's Ownership f. <input checked="" type="checkbox"/> Seed Sample (2,500 viable untreated seeds). Date Seed Sample mailed to Plant Variety Protection Office g. <input checked="" type="checkbox"/> Filing and Examination Fee (\$2,325) made payable to "Treasurer of the United States"		
15. DOES THE APPLICANT(S) SPECIFY THAT SEED OF THIS VARIETY BE SOLD BY VARIETY NAME ONLY AS A CLASS OF CERTIFIED SEED? (See section 83(a) of the Plant Variety Protection Act) <input checked="" type="checkbox"/> YES (If "YES," answer items 16 and 17 below) <input type="checkbox"/> NO (If "NO," skip to item 18 below)		
16. DOES THE APPLICANT(S) SPECIFY THAT THIS VARIETY BE LIMITED AS TO NUMBER OF GENERATIONS? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	17. IF "YES" TO ITEM 16, WHICH CLASSES OF PRODUCTION BEYOND BREEDER SEED? <input checked="" type="checkbox"/> FOUNDATION <input checked="" type="checkbox"/> REGISTERED <input checked="" type="checkbox"/> CERTIFIED	
18. DID THE APPLICANT(S) PREVIOUSLY FILE FOR PROTECTION OF THE VARIETY IN THE U.S.? <input type="checkbox"/> YES (If "YES," through <input type="checkbox"/> Plant Variety Protection Act <input type="checkbox"/> Patent Act. Give date: _____). <input checked="" type="checkbox"/> NO		
19. HAS THE VARIETY BEEN RELEASED, USED, OFFERED FOR SALE, OR MARKETED IN THE U.S. OR OTHER COUNTRIES? <input type="checkbox"/> YES (If "YES," give names of countries and dates) <input checked="" type="checkbox"/> NO		
20. The applicant(s) declare(s) that a viable sample of basic seeds of this variety will be furnished with the application and will be replenished upon request in accordance with such regulations as may be applicable.		
The undersigned applicant(s) is (are) the owner(s) of this sexually reproduced novel plant variety, and believe(s) that the variety is distinct, uniform, and stable as required in section 41, and is entitled to protection under the provisions of section 42 of the Plant Variety Protection Act. Applicant(s) is (are) informed that false representation herein can jeopardize protection and result in penalties.		
SIGNATURE OF APPLICANT [Owner(s)]  <b>Dr. Peter Franck</b>	CAPACITY OR TITLE  <b>President</b>	DATE  <b>Dec. 30, 1994</b>
SIGNATURE OF APPLICANT [Owner(s)]  	CAPACITY OR TITLE  <b>President</b>	DATE  <b>Dec. 30, 1994</b>



950096

## F R A N C K E N K O R N

### 14 A Exhibit A: Origin and Breeding History of the variety:

#### 1. Description of Genealogy:

Pedigree : ((Mutant D 24 x Altgold)xAltgold) x Rouquin  
Mutant D 24 : natural mutant of Spelt variety  
Altgold : (Oberkulmer Rotkorn x Sandmeier)  
Rouquin : (Line 24 x Ardenne) Altgold

1st crossing : 1974 : Mutant D 24 x Altgold  
1975-78 : single plant - pedigree selection  
2nd crossing : 1978 : F4 x Altgold  
1979-82 : single plant - pedigree selection  
3rd crossing : 1982 : F4 x Rouquin  
1983-87 : single plant - pedigree selection  
1988 : 480 single plants selected from  
4 sublines  
1989 : Determination of THE Line  
Maintenance Breeding based on single plant selection.  
Breeders Seed derived from a bulk of 1150  
F8 random single plants

#### 2. Selection criteria:

- a) TRUE Spelt types with brittleness of the rachis as a major criteria
- b) Winter hardiness
- c) Bread making quality
- d) Disease Tolerance :
  - Powdery mildew
  - Septoria nodorum + tritici
  - fusarium head blight
  - lodging resistance

#### 3. Type and frequency of variants:

Very few off-types observed : less than 1/ooo; if any, small variation in plant height ( $\pm$  5 cm)



9500096

## F R A N C K E N K O R N

### 14 B Exhibit B: Novelty Statement

Franckenkorn is similar to Rouquin.

Following tables, based on paired comparisons with statistical tests Following Objective variety description (Exhibit C) Franckenkorn and Rouquin differ in a total numbers of 10 items:  
## 3, 4, 5, 8, 10, 11, 12 and 16.

The major differences between those 2 varieties  
are :      Maturity  
              Straw length  
              Seed Size

annexe : 3 pages

## Measurements for spelt varieties Franckenkorn and Rouquin

From both varieties, Franckenkorn and Rouquin, 20 plants were examined in two locations and two years and the characters plant height [cm], length of flag leaf [mm] and flowering date [days after January 1st] were measured. The datas were calculated with PLABSTAT (Utz 1989).

A test for skewness and curtosis was made to make sure that the datas were normal-distributed. The original datas, mean values and variances for each variety, each year and each location are given in Tab.1, Tab. 2 and Tab. 3.

An ANOVA survey was made over years and locations to test if the two varieties can be distinguished from each other. In the statistical model varieties, locations and years were regarded as factorial factors. Repetitional measurements within varieties, locations and years were regarded as hierarchical factors. Table 4 gives the F-value for each factor and its significance (\*\* for  $\alpha=0.01$ , \* for  $\alpha=0.05$ , + for  $\alpha=0.1$ ).

UTZ 1989: PLABSTAT. Ein Computerprogramm zur statistische Analyse von pflanzenzüchterischen Experimenten. Version 2D. Institut für Pflanzenzüchtung, Saatgutforschung und Populationsgenetik, Universität Hohenheim, D-70599 Stuttgart

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**Tab. 1: Plant Height**

variety	character	yr.	location	measurements cm												mean	total mean	variance				
				1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	
Francken korn	plant height cm	95	OL	119	124	123	120	118	119	120	124	127	121	123	120	121	124	122	119	120	121.35	
		VE	121	123	124	127	120	119	121	123	124	122	121	123	129	126	128	120	119	120	122.75	
Rouquin	plant height cm	96	OL	117	119	124	121	122	124	121	119	126	123	125	121	123	122	127	124	120	119	121
		VE	124	123	127	121	124	119	120	123	122	126	124	125	123	124	125	120	119	123	122.05	
Rouquin	plant height cm	95	OL	131	128	131	128	129	129	126	128	123	127	129	128	129	127	129	123	124	125	122.31
		VE	129	127	124	125	123	126	122	125	124	123	122	123	122	126	124	120	119	128	128.10	
Rouquin	plant height cm	96	OL	129	129	121	130	132	129	135	134	135	131	128	126	129	131	133	129	128	134	129
		VE	132	133	132	130	133	134	135	131	128	126	129	131	133	129	131	130	130	132	130	
																				131.30		
																				127.90		
																				6.358		

**Tab. 2: Length of flag leaf**

variety	character	yr.	location	measurements mm												mean	total mean	variance				
				1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	
Francken korn	flag leaf length mm	95	OL	260	256	259	280	282	271	273	264	269	271	277	279	284	281	279	282	286	271	280
		VE	274	281	271	276	290	288	274	279	274	281	282	281	279	274	282	279	281	277	278.70	
Rouquin	flag leaf length mm	96	OL	278	279	284	278	279	291	284	286	282	284	285	283	275	272	278	284	286	285	281.75
		VE	282	278	285	275	278	280	285	279	280	281	286	283	284	279	284	288	281	289	281.987	
Rouquin	flag leaf length mm	95	OL	269	274	280	290	282	278	286	281	280	279	281	284	279	278	284	288	280	280	281.35
		VE	284	282	288	289	281	280	265	284	275	281	275	273	275	278	284	275	279	278	279.01	
Rouquin	flag leaf length mm	96	OL	268	267	271	275	273	268	275	285	275	290	270	280	275	280	274	285	280	276	278.50
		VE	280	277	275	280	283	278	284	281	282	270	287	285	275	280	284	287	275	280	277.70	
																				280.30		
																				278.77		
																				17.842		

**Tab. 3: Flowering date**

variety	character	yr.	location	measurements from January 1st.												mean	total mean	variance				
				1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	
Francken korn	flowering days after Jan. 1st	95	OL	169	169	171	176	173	174	172	170	173	172	169	175	176	177	173	171	166	172.35	
		VE	171	171	176	179	176	176	171	169	173	176	177	173	176	177	173	175	176	171	174.55	
Rouquin	flowering days after Jan. 1st	95	OL	184	182	178	182	177	175	177	174	181	180	177	175	179	177	179	177	180	177	177.95
		VE	184	181	179	181	179	183	182	180	183	181	182	179	181	184	179	182	180	179	180.65	
Rouquin	flowering days after Jan. 1st	96	OL	192	190	189	187	183	185	179	178	163	177	172	170	173	180	177	173	179	178.60	
		VE	192	189	191	188	187	184	181	185	187	186	178	177	178	179	179	177	180	181	171.75	
																				182.25		
																				32.618		
																				12.471		
																				15.484		

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Tab.4: Significance of examined characters

	DF	plant height			length of flag leaf			flowering date		
		MS	F-value	sign.	MS	F-value	sign	MS	F-value	sign.
Varieties (Var)	1	1248.81	171.15	**	2.26	0.07	ns	921.60	51.04	**
Locations (Loc)	1	10.51	1.44	ns	146.31	4.33	*	319.23	17.68	**
Var * Loc	1	20.31	2.78	+	0.51	0.01	ns	5.63	0.31	ns
Years (Yrs)	1	154.06	21.11	**	327.76	9.70	**	540.23	29.92	**
Var * Yrs	1	82.66	11.33	**	195.81	5.79	*	189.23	10.48	**
Loc * Yrs	1	117.31	16.08	**	20.31	0.60	ns	0.40	0.02	ns
Var * Loc * Yrs	1	142.51	19.53	**	117.31	3.47	+	4.90	0.27	ns
Repetition within Var * Loc * Yrs	152	7.30			33.80			18.06		

U.S. DEPARTMENT OF AGRICULTURE  
AGRICULTURAL MARKETING SERVICE  
COMMODITIES SCIENTIFIC SUPPORT DIVISION  
BELTSVILLE, MARYLAND 20705

## OBJECTIVE DESCRIPTION OF VARIETY

WHEAT (TRITICUM spp.)

INSTRUCTIONS: See Reverse.

NAME OF APPLICANT(S)

Dr. Peter Franck

ADDRESS (Street and No. or R.F.D. No., City, State, and ZIP Code)  
Pflanzenzucht Oberlimpurg

Dr. Franck

74523 Schwäbisch Hall

FOR OFFICIAL USE ONLY  
PYPO NUMBER

9500096

VARIETY NAME OR TEMPORARY  
DESIGNATION

FRANCKENKORN

Place the appropriate number that describes the varietal character of this variety in the boxes below.  
Place a zero in first box (e.g. 0 8 9 or 0 9 ) when number is either 99 or less or 9 or less.

1. KIND:

 1 = COMMON    2 = DURUM    3 = EMMER    4 = SPELT    5 = POLISH    6 = POULARD    7 = CLUB

2. TYPE:

 1 = SPRING    2 = WINTER    3 = OTHER (Specify) \_\_\_\_\_  1 = SOFT    3 = OTHER (Specify) \_\_\_\_\_  
2 = HARD SPELT 1 = WHITE    2 = RED    3 = OTHER (Specify) Spelt HARD RED

3. SEASON - NUMBER OF DAYS FROM EMERGENCE TO: January 1st

1 7 1 FIRST FLOWERING

1 8 1 LAST FLOWERING

4. MATURITY (50% Flowering):

 0 5 NO. OF DAYS EARLIER THAN ..... Rouquin  1 = ARTHUR    2 = SCOUT    3 = CHRIS  
 NO. OF DAYS LATER THAN .....  4 = LEMHI    5 = HUGAINES    6 = LEEDS

5. PLANT HEIGHT (From soil level to top of head):

1 2 2 CM. HIGH

 CM. TALLER THAN ..... 0 6 CM. SHORTER THAN ..... Rouquin  1 = ARTHUR    2 = SCOUT    3 = CHRIS  
4 = LEMHI    5 = HUGAINES    6 = LEEDS

6. PLANT COLOR AT BOOTING (See reverse):

 2 1 = YELLOW GREEN    2 = GREEN    3 = BLUE GREEN 1 1 = YELLOW    2 = PURPLE

8. STEM:

 1 Anthocyanin: 1 = ABSENT    2 = PRESENT 2 Waxy bloom: 1 = ABSENT    2 = PRESENT 2 Hairiness of last internode of rachis: 1 = ABSENT    2 = PRESENT 1 Internodes: 1 = HOLLOW    2 = SOLID 0 5 NO. OF NODES (Originating from node above ground) 2 6 CM. INTERNODE LENGTH BETWEEN FLAG LEAF AND LEAF BELOW

9. AURICLES:

 1 Anthocyanin: 1 = ABSENT    2 = PRESENT 1 Hairiness: 1 = ABSENT    2 = PRESENT

10. LEAF:

 1 Flag leaf at booting stage: 1 = ERECT    2 = RECURVED  
3 = OTHER (Specify): \_\_\_\_\_ 1 Flag leaf: 1 = NOT TWISTED    2 = TWISTED 1 Hairs of first leaf sheath: 1 = ABSENT    2 = PRESENT 2 Waxy bloom of flag leaf sheath: 1 = ABSENT    2 = PRESENT 1 3 MM. LEAF WIDTH (First leaf below flag leaf) 2 8 CM. LEAF LENGTH (First leaf below flag leaf):

## 11. HEAD:

 1

Density: 1 = LAX 2 = DENSE

 2Shape: 1 = TAPERING 2 = STRAP 3 = CLAVATE  
4 = OTHER (Specify) \_\_\_\_\_ 1

Awnedness: 1 = AWNLESS 2 = APICALLY AWNED 3 = AWNED 4 = AWNED

 4

Color at maturity: 1 = WHITE 2 = YELLOW 3 = PINK 4 = RED

5 = BROWN

6 = BLACK

7 = OTHER (Specify) \_\_\_\_\_

 10

CM. LENGTH.

 11

MM. WIDTH

## 12. GLUMES AT MATURITY:

 3Length: 1 = SHORT (CA. 7 mm.) 2 = MEDIUM (CA. 8 mm.)  
3 = LONG (CA. 9 mm.) 3Width: 1 = NARROW (CA. 3 mm.) 2 = MEDIUM (CA. 3.5 mm.)  
3 = WIDE (CA. 4 mm.) 3Shoulder: 1 = WANTING 2 = OBLIQUE 3 = ROUNDED  
shape: 4 = SQUARE 5 = ELEVATED 6 = APICULATE 2

Beak: 1 = OBSCURE 2 = ACUTE 3 = ACUMINATE

## 13. COLEOPTILE COLOR:

 3

1 = WHITE 2 = RED 3 = PURPLE

 1

1 = ABSENT 2 = PRESENT

## 15. JUVENILE PLANT GROWTH HABIT:

 2

1 = PROSTRATE 2 = SEMI-ERECT 3 = ERECT

## 16. SEED:

 3

Shape: 1 = OVATE 2 = OVAL 3 = ELLIPTICAL

 2

Cheek: 1 = ROUNDED 2 = ANGULAR

 3

Brush: 1 = SHORT 2 = MEDIUM 3 = LONG

 1

Brush: 1 = NOT COLLARED 2 = COLLARED

 4Phenol reaction (See instructions): 1 = IVORY 2 = FAWN 3 = LT. BROWN  
4 = BROWN 5 = BLACK 3

Color: 1 = WHITE 2 = AMBER 3 = RED 4 = PURPLE 5 = OTHER (Specify) \_\_\_\_\_

 09

MM. LENGTH

 3,3

MM. WIDTH

 56

GM. PER 1000 SEEDS

## 17. SEED CREESE:

 2

Width: 1 = 60% OR LESS OF KERNEL 'WINOKA'

 3

Depth: 1 = 20% OR LESS OF KERNEL 'SCOUT'

2 = 80% OR LESS OF KERNEL 'CHRIS'

2 = 35% OR LESS OF KERNEL 'CHRIS'

3 = NEARLY AS WIDE AS KERNEL 'LEMHI'

3 = 50% OR LESS OF KERNEL 'LEMHI'

## 18. DISEASE: (0 = Not Tested, 1 = Susceptible, 2 = Resistant)

 2STEM RUST  
(Races) \_\_\_\_\_ 2LEAF RUST  
(Races) \_\_\_\_\_ 0STRIPE RUST  
(Races) \_\_\_\_\_ 2

LOOSE SMUT

 2

POWDERY MILDEW

 2

BUNT

 0

OTHER (Specify) \_\_\_\_\_

## 19. INSECT: (0 = Not Tested, 1 = Susceptible, 2 = Resistant)

 0

SAWFLY

 0

APHID (Bydn.)

 0

GREEN BUG

 0

CEREAL LEAF BEETLE

 0

OTHER (Specify) \_\_\_\_\_

HESSIAN FLY

RACES:

 GP A B C D E F G

## 20. INDICATE WHICH VARIETY MOST CLOSELY RESEMBLES THAT SUBMITTED:

## CHARACTER

## NAME OF VARIETY

## CHARACTER

## NAME OF VARIETY

Plant tillering

Seed size

Leaf size

Seed shape

Leaf color

Coleoptile elongation

Leaf carriage

Seedling pigmentation

## INSTRUCTIONS

**GENERAL:** The following publications may be used as a reference aid for the standardization of terms and procedures for completing this form:

(a) L.W. Brigg and L.P. Reitz, 1963, *Classification of Triticum Species and Wheat Varieties Grown in the United States*, Technical Bulletin 1278, United States Department of Agriculture.

(b) W.E. Walls, 1965, *A Standardized Phenol Method for Testing Wheat Seeds for Varietal Purity*, contribution No. 28 to the handbook of seed testing prepared by the Association of Official Seed Analysts. (See attachment.)



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page 5

Exhibit D

FRANCKENKORN

## Q U A L I T Y

Milling quality : Milling quality on SPELT varieties is first based on the possibility or impossibility of DEHULLING under acceptable costs. With reference to Dr.H. Zwingelberg, Federal Cereal Research Institute, Detmold Germany, please be informed about that topic by the following abstract:

### TO THE PROBLEM OF DEHULLING AND CLEANING OF SPELT (TRITICUM SPELTA) H. Zwingelberg

The dehulling and cleaning of spelt and green kernels (immatured spelt) are the most important steps of processing food cereals. The principle of frictional forces with purposive pressure is suitable for dehulling of spelt. This is due to the anatomical kernel structure and the differences of mechanical properties of kernel and husk. Spelt varieties from different localities grown in several seasons under comparative conditions were dehulled on a laboratory dehulling machine. Kernel moisture, kernel yield, husk content, shrivelled kernel content were determined. Furthermore, dehulling experiments with green kernels batches of different heating treatments were carried out. Before the dehulling of spelt or green kernels, foreign material as iron or stones and naked kernels should be separated. The results of dehulling are dependent on the presence of shrivelled kernels and the moisture content of spelt. The achieved whole kernels yield ranged to 70 % for spelt and 60 % for green kernels. This is mainly affected by the shrivelness of kernels.

Milling quality is very high (high flour yield), low ash content.  
Bread making quality: Excellent, characterized by a most

efficient balance between gluten amount and gluten strength, combined with good water absorption.

Enclosed copy - Results of Lab "Aberham"

Gluten amount : 34,8

Protein 15,3

Falling Number 330

Loaf volume : very high

Pore Size Distribution: very regular

L X N D I L  
95000%

Reference Number  
(not to be filled in by the applicant)  
Référence  
(réservé aux Administrations)  
Referenznummer  
(nicht vom Anmelder auszufüllen)

TECHNICAL QUESTIONNAIRE  
to be completed in connection with an application for plant breeders' rights

QUESTIONNAIRE TECHNIQUE  
à remplir en relation avec une demande de certificat d'obtention végétale

TECHNISCHER FRAGEBOGEN  
in Verbindung mit der Anmeldung zum Sortenschutz auszufüllen

1. Species/Espèce/Art      Triticum aestivum L.      ssp. SPELTA (Spelt)  
WHEAT  
BLE  
WEIZEN

2. Applicant (Name and address)/Demandeur (nom et adresse)/Anmelder (Name und Adresse)

Dr. Peter Franck

Pflanzenzucht Oberlimpurg  
Dr. Franck  
74523 Schwäbisch Hall

3. Proposed denomination or breeder's reference  
Dénomination proposée ou référence de l'obtenteur  
V geschlagene Sortenbezeichnung oder Anmeldebezeichnung

F R A N C K E N K O R N

Information on origin, maintenance and reproduction of the variety  
Renseignements sur l'origine, le maintien et la reproduction de la variété  
Information über Ursprung, Erhaltung und Vermehrung der Sorte

Origin : Europe  
Maintenance Breeding : Pflanzenzucht Oberlimpurg, Dr. Franck  
Reproduction : Germany and U.S.A.

10

5. Characteristics of the variety to be indicated (the number in brackets refers to the corresponding characteristic in the Test Guidelines; please mark the state of expression which best corresponds)

Caractères de la variété à indiquer (le nombre entre parenthèses renvoie au caractère correspondant dans les principes directeurs d'examen; prière de marquer d'une croix le niveau d'expression approprié)

Anzugebende Merkmale der Sorte (die in Klammern angegebene Zahl verweist auf das entsprechende Merkmal in den Prüfungsrichtlinien; die Ausprägungsstufe, die der der Sorte am nächsten kommt, bitte ankreuzen)

	Characteristics Caractères Merkmale	English	français	deutsch	Example Varieties Exemples Beispielssorten	Note
5.1 (33)	Seasonal type Type de développement Wechselverhalten	winter type alternative type spring type	type hiver type alternatif type printemps	Winterform Wechselform Sommerform	Clement Talent - ; Timmo	1 [X]
5.2. (5)	Time of ear emergence (first spikelet visible on 50% of ears; quote mean date of heading of variety as well as of two well-known comparable varieties)	..... ..... .....	FRANCKENKORN ROUQUIN based on data of January 1st = 1	171 - 181 176 - 186 16	..... ..... .....	21 3 [ ]
5.3 (12)	Zeitpunkt des Ährenschiebens (erstes Ährchen sichtbar an 50% der Ähren; mittleres Datum des Ährenschiebens der Sorte sowie von zwei bekannten vergleich- baren Sorten angeben)	.....	FRANCKENKORN: 122 cm ROUQUIN : 128 cm	.....	.....	.....
	Plante: hauteur (tige et épis; indiquer la hauteur de la variété et de deux variétés com- parables bien connues)	.....	.....	.....	.....	11
	Pflanze: Länge (Halm und Ähre; Länge der Sorte sowie von zwei bekannten vergleich- baren Sorten angeben)	.....	.....	.....	.....	11

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5.4 (13)	Straw: section (half way between base of ear and stem node below)	pith thin	moelle peu épaisse	Füllung dünn	Maris Huntsman	1 [X]
	Paille: section (à mi-hauteur de l'épi et le noeud de la tige immédiatement en-dessous)	pith medium thick	moelle moyenne épaisse	Füllung mittel dick	Kinsman Heurtebise	2 [ ] 3 [ ]
	Halm: Füllung (in der Mitte zwischen der Basis der Ähre und dem darunter liegenden Halbknoten)					
5.5 (14)	Ear: color (at maturity)	white	blanc	weiss	Clement	1 [ ]
	Epi: couleur (à maturité)	colored	coloré	gefärbt	Pantus	2 [X]
	Ähre: Farbe (bei der Reife)					
5.6 (17)	Awns or scurs: presence	both absent	toutes les deux absentes	beide fehlend	Prestige	1 [X]
	Barbes ou arêtes: présence	scurs present	arêtes présentes	Spelzenspitzen vorhanden	Maris Huntsman	2 [ ]
	Grannen oder Spelzen-spitzen: Vorhandensein	awns present	barbes présentes	Grannen vorhanden	Courtot	3 [ ]
5.7 (30)	Grain: color	white	blanc	weiss	Albatros	1 [ ]
	Grain: couleur	red	roux	rot	Maris Huntsman	2 [X]
	Korn: Farbe					

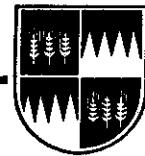
Similar varieties and differences from these varieties  
Variétés voisines et différences par rapport à ces variétés  
Ähnliche Sorten und Unterschiede zu diesen Sorten

Denomination of varieties  
Dénomination des variétés  
Bezeichnung der Sorten

Differences  
Différences  
Unterschiede

Rouquin

Franckenkorn:  
shorter, earlier



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F R A N C K E N K O R N

Exhibit E      State of the Basis of Applicants  
Ownership

The variety for which Plant Variety Protection is hereby  
sought is owned by

Dr. Peter Franck

Please see for confirmation copy of EEC Plant Variety Protection  
Statement

No: EU0702      18. February 1997

*confirmed And 26 Aug 1997*